



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total
PO039137	ACI001-VC	5	1	Net 30	MT-4140-S-1.250X11.000	AISI 4140 Steel Sheet/Plate				12	3/15/2018	12		S052074	Stock	3/16/2018	\$ 116.00 / ft	0	\$1	
			6		MT-4140-S-0.375X5 500					6		6		S052075	Stock	3/16/2018	\$ 31.33 / ft	0	\$1	
										Total:		18			18				\$1,2	

Plex 3/16/2018 9:10 AM Dart.Dubois.Pascal



DELIVERY - CLIENT

Copy c000075966

935 Boul. du Hôpital
ACIER OUELLETTE INC.

Customer N° CLI0001056

Date 2018/02/27

2018/02/27

Tel.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4243

2018/03/15

Order No. 039137

039137

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15700

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY Ontario K6A 1K3

HAWKESBURY, Ontario

ESTATE PLANNING

NIR : R-109516-6

Next Page...

KAISER

ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4454909

CUSTOMER PO NUMBER: C73911-1	WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 103857/13	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1230790-1	SHIP DATE: 10-MAR-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: Kaiser Stretched
WEIGHT SHIPPED: 3263 LB	QUANTITY: 47 PCS EST.	TRUCK B/L #: 2065651	GAUGE: 0.1000 IN (2.5400 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2095424: LOT 217534B7: 47 pieces; *191312*

Certified Specifications

- ✓ AMS 4037/RevQ
- ✓ AMS-QQ-A-250/4/RevB
- ✓ CMMMP 019/RevD
- ✓ CMMMP 025/RevV
- ✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 217534B7 Cast 387

Test Results

Drop 39 Ingot 2

Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	67.0 : 67.2 (462 : 463)	46.4 : 47.0 (320 : 324)	16.3 : 17.0

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	TOT	OTHER
Actual(wt%)	0.07	0.19	4.6	0.58	1.3	0.01	0.11	0.03	0.01	0.00	0.04	

ALLOY LIMITS

2024	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4454909

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2722, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (IEC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

MART 75966

Chemical certification
Certification chimique

PO. 13906

Order Num / No. Commande AC-13906	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA	Date 12/18/14	Heat / coulée 290604	Material ID # / No. matière 290604
Grade / Nuance 4140 PLT	Conditions HEAT TREATED, Q&T				
Shape / Forme PLT	Size / Dimension 1.250	Specifications ASTM A434 / SAE J404 / ASTM A829-06	<i>290604</i>		

Chemical composition / Analyse chimique

Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190
Actuel % 0.417	0.250	0.760	0.009
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500
Actuel % 0.002	0.970	0.000	0.180
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.030	0.000	0.000
Cobalt (Co)	Titanium (Ti)		
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.000	0.000	0.000

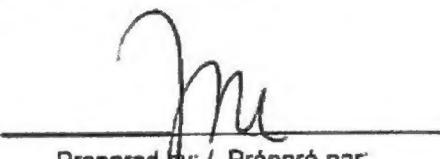
Mechanical properties / Propriétés Mécaniques

Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté
0.000	PSI	0.000	PSI	0.00	302 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut ont été vérifiées et sont conformes d'après un certificat original qui nous a été fourni par notre fournisseur.


Prepared by: / Préparé par:

Chemical certification
Certification chimique

Order Num / No. Commande	Vendor / Fournisseur	Country of origin / Pay d'origine	Date	Heat / coulée	Material ID # / No. matière
AC-13906	46	SLOVENIA	01/25/17	298132	
Grade / Nuance 4140 PLT	Conditions HEAT TREAT				
Shape / Forme PLT	Size / Dimension 0.375	Specifications 3.82			

Chemical composition / Analyse chimique

Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190
Actuel % 0.427	0.248	0.785	0.006
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500
Actuel % 0.001	0.970	0.250	0.190
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.136	0.036	0.027	0.000
Cobalt (Co)	Titanium (Ti)		
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.000	0.000	0.000

Mechanical properties / Propriétés Mécaniques

Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Duraté
0.000 PSI	0.000 PSI	0.00	0.00		280/281 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-S-0.375X5.500 PO / BATCH NO.: 039137/5052075
 DATE: MAR 16 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.398
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	10
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat # 298132
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS / 100</u>	SIGNED OFF BY: _____
DATE: <u>9-8</u> <u>MAR 16 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION:

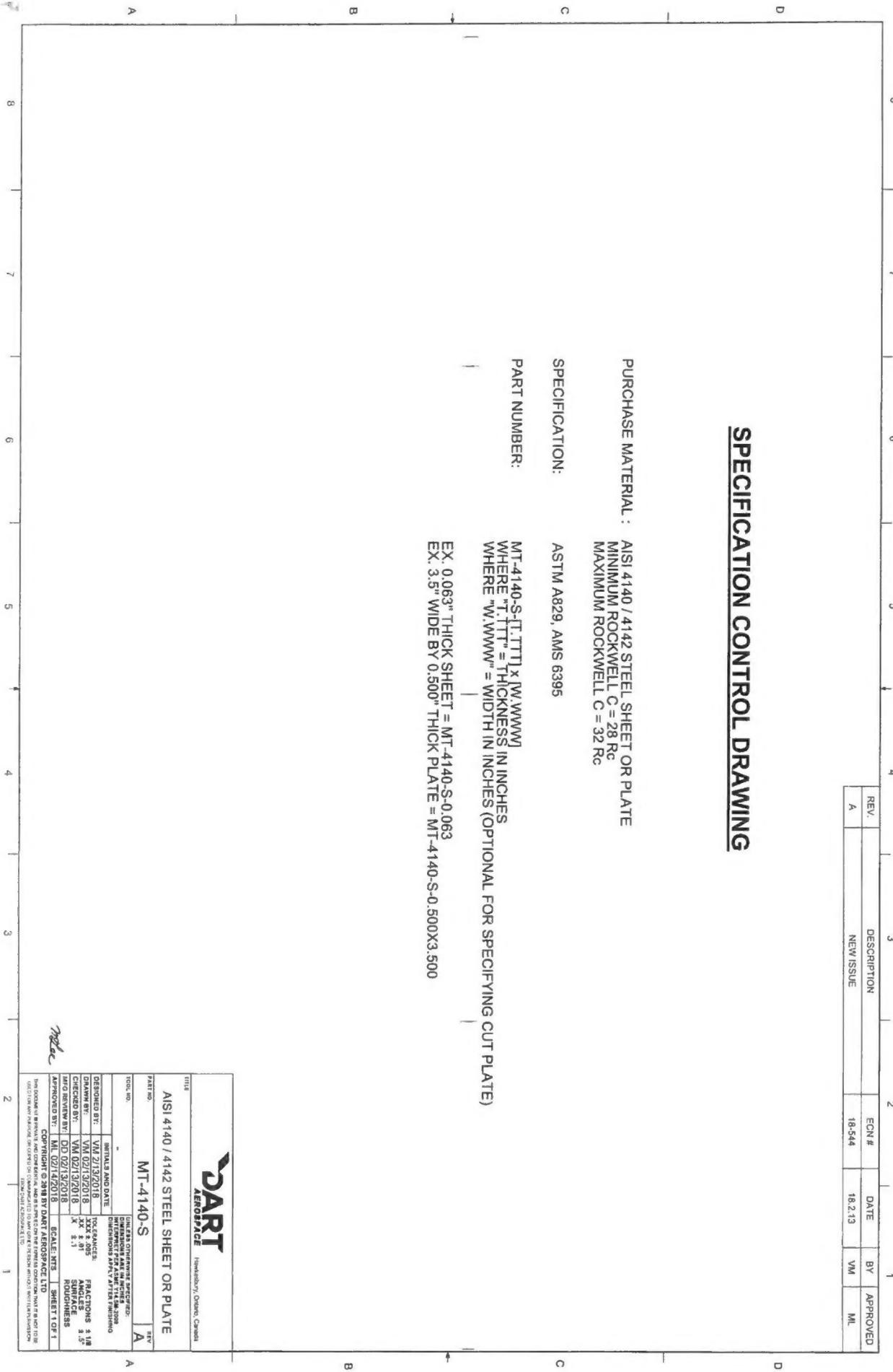
ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-[T].[TT] x [W].[WWWW]
WHERE "T" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

DART AEROSPACE	
Montreal, Quebec, Canada	
Title	
AISI 4140 / 4142 STEEL SHEET OR PLATE	
Part No.	MT-4140-S
Rev.	A
Drawing No.	
Other Notes	
Dimensions are in inches. A DIMENSIONAL ALLOWANCE OF .005" IS CUTHOLES APPLY AFTER PUNCHING	
MATERIALS AND DATE	
DESIGNED BY: VM 21/3/2018 FRACTIONS 1/16 DRAWN BY: VM 20/3/2018 ANGLES 1/16 CHECKED BY: VM 20/3/2018 SURFACE APPROVED BY: DO 20/3/2018 FINISHES SHEET OF 1	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-S-1.250X11.000

PO / BATCH NO.: 039137/5052074

DATE: MAR 16 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: 11x11
 SHEET SIZE RECEIVED: 11x11

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	<i>Astm A829</i>
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<i>Heat# 290604</i>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAR 16 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
 MINIMUM ROCKWELL C = 28 Rc
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION:

ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-[T.TTT]x[W.WWW]
 WHERE "T.TTT" = THICKNESS IN INCHES
 WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

DART AEROSPACE		Hawthorn, Ontario, Canada
TITLE		
AISI 4140 / 4142 STEEL SHEET OR PLATE		
PART NO.	REV	A
ITEM NO.		
DIMENSIONS ARE IN INCHES. DIMENSIONS APPLY AFTER PASSING		
TOLERANCES:		
INITIALS AND DATE		
DESIGNED BY:	VA 2/15/2016	
CHECKED BY:	VA 02/13/2016	
INFO REVIEW BY:	VA 02/13/2016	
APPROVED BY:	DO 02/13/2016	
SCALE: MTS		
SHEET 1 OF 1		
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039137

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO039137

PO Date: 2/27/18

Due Date: 3/7/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pytm Terms: Net 30

Freight Terms:

Special Comments: quotation no: sou0088460

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M2024T3S.100	2024-T3 .100	Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed	3/7/18	48 sf	0 sf	48 sf	\$17.1875/sf	\$825.00
2	M304S22GA4P	304/316 Sheet .032	: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	3/7/18	64 sf	0 sf	64 sf	\$3.491875/sf	\$223.48
3	M1018R3.500	M1018R3.500	ROUND BAR M1018-1025 PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	3/7/18	6 ft	0 ft	6 ft	\$31.09/ft	\$186.54
4	M4140N-R3.250	4140 Steel Round Bar 3.250"	receive ft	Firmed	3/7/18	6 ft	0 ft	6 ft	\$53.3333/ft	\$320.00
5	MT-4140-S-1.250X11.000	AISI 4140 Steel Sheet/Plate		Firmed	3/7/18	12 ft	0 ft	12 ft	\$116.00/ft	\$1,392.00

DAS
11
9-89

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PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
Line Item Note 2 pcs of 6ft										
6	MT-4140-S-0.375X5.500		AISI 4140 Steel Sheet/Plate	Firmed	3/7/18	6 ft	0 ft	6 ft	\$31.3333/ft	\$188.00
7	M304TR1.750W.120		304 Seamless Tubing 1.75 X .120W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	3/7/18	12 ft	0 ft	12 ft	\$30.8333/ft	\$370.00
8	D6201P		T Extrusion 4X4X3/8 as per dwg d6201 rev. b B173203	Firmed	3/7/18	20 ft	0 ft	20 ft	\$20.25/ft	\$405.00
Grand Total: \$3,910.02										
Order Notes										
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents A048 counterfeit parts avoidance, detection, mitigation and disposition program A049 supplier awareness										
Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.										

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